Adapt Marathon – 55 hour BT GPS RECEIVER

GENERAL DESCRIPTION

The ADAPT MARATHON Bluetooth GPS receiver, a total solution of GPS Bluetooth wireless technology, is designed specifically for the user that is in constantly using a GPS receiver for navigation or tracking. The ADAPT MARATHON allows for up to 55 hours continuous use, to a stand-by time up to several weeks. The ADAPT MARATHON Bluetooth GPS receiver works with all Bluetooth smart phones, lap-tops, PDAs in an operating range of more than 10 meters. ADAPT MARATHON is an ideal receiver to be used in any strict weather condition. The high performance high sensitivity, especially ultra long operation hours makes this the most practical GPS receiver on the market.

APPLICATIONS

- Automotive
- Fleet management/Asset tracking
- Personal/Portable Navigation (PDA, Pocket PC etc.)
- Location Based Service enabled devices
- Sports and Recreation
- Geographic Surveying

KEY PRODUCT FEATURES

- 20 channels “All-In-View” tracking
- Cold/Warm/Hot start time: 42/38/1 sec. (average)
- Superior sensitivity: -159dBm tracking
- Reacquisition time: 0.1 sec.
- Built-in ceramic patch antenna
- Built-in rechargeable Li-ion battery
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Ultra low power consumption: up to 53 hours continuous use by 2400mA/h battery
- Vibration sensor for power management
- Time to full recharge: 4 hours
- 4 LEDs display all GPS, Bluetooth and power status
- Size: 77.05 (L) X 50.0 (W) X 23.05 (H) mm
- Weight: 83.2g (battery included)
- Non-slip back pad for a secure placement

SPECIFICATIONS

GPS Features

Chipset	SiRF Star III
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	Supports 20 channels
Antenna (Internal)	Built-in low noise antenna

Sensitivity

To – 159dBm Tracking, Superior Urban Canyon Performance

Time to First Fix (TTFF)

Cold Start	42 sec, average
Warm Start	38 sec, average
Hot Start	1 sec, average
Reacquisition	0.1 sec
Update rate	1 Hz (max.)

Accuracy

Position	5 – 25m CEP without SA
Velocity	0.1m/sec, without SA
Time	1μs synchronized to GPS time

Power

Built-in rechargeable 2400mAh Li-ion battery and 5V DC input

Operation Current	<45mA (Typical)
Operation Time	Up to 53hrs, fully charged, in continuous mode
Charging time	4.0hrs. (Typical)

Datum

WGS-84

Dynamic Conditions

Altitude	<18,000 m (60,000feet)
Velocity	<515 m/s (1000 knots)
Acceleration	<4G
Motional Jerk	20m/sec^3 max.

Interface

Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile

Bluetooth communication distance 10meters (Typical)

GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV, RMC, VTG

Data bit: 8, stop bit: 1(Default)

Device Size and Weight

77.05 (L) X 50.0 (W) X 23.05 (H) mm

3.03 (L) X 1.97 (W) X 0.91 (H) inch

82.8g (battery included)

Accessories

Car charger (12V in, 5V output)

AC adaptor (5.3V output, 500mA)

Environmental Characteristics

Operating Temperature	- 10°C to + 60°C
Storage Temperature	- 20°C to + 85°C

All specifications are subject to change without notice